

ABSTRACT

The invention is a mechanical broadhead arrowhead. The broadhead arrowhead includes a ferrule. A fixed main blade assembly extend outwardly from the ferrule. This main blade assembly has a first substantially planar portion disposed in a plane at least substantially parallel to a longitudinal axis of the ferrule and a two continuously curved second portions offset at angle to the plane of the first planar portion such that the blade assembly has an airfoil-type shape. A number of deployable blades attached to the ferrule also have substantially planar portions and continuously curved portions. The main blade and deployable blades act together as an axial flow turbine during flight. The ferrule further comprises an inertial trigger mechanism that both inhibits premature deployment of the deployable blades during release and flight, yet also promotes deployment of deployable blades during impact with a target.